Contents

Adams, A.: Transformation and Transduction of a Large Deletion Mutation in *Bacillus subtilis* 311

Adams, A., Oishi, M.: Genetic Properties of Arsenate Sensitive Mutants of *Bacillus subtilis* 168 295

Ahmad, S. I., Pritchard, R. H.: Location of the Gene Specifying Cytosine Deaminase in *Escherichia coli* 323

Anderson, E. S., Smith, H. R.: Fertility Inhibition in Strains of *Salmonella typhimurium* 79

Arkel, G. A. van, s. Hofs, E. B. H., *et al.* 161

Baranowska, H., s. Putrament, A., *et al.* 373

Barlati, S.: DNA Replication during Development of Competence in *Bacillus subtilis* . . 327

Bautz, E. K. F., Bautz, F. A., Beck, E.: Specificity of σ-dependent Binding of RNA Polymerase to DNA 199

Bautz, F. A., s. Bautz, E. K. F., *et al.* 199

Beck, E., s. Bautz, E. K. F., *et al.* 199

Biliński, T., s. Putrament, A., *et al.* 373

Brederode, J. van, Nigtevecht, G. van: The Genetic Control of Isovitexin-glycosylation in the Petals of *Melandrium album* 247

Cybis, J., Piotrowska, M., Weglenski, P.: Genetic Control of the Arginine Pathways in *Aspergillus nidulans*. Common Regulation of Anabolism and Catabolism 273

Dedonder, R., s. Lepesant, J.-A., *et al.* 135

Dove, W. F., s. Haugli, F. B. 97, 109

Drake, J. W., s. Ripley, L. S. 1

Ducayen, M., s. Jagiello, G., *et al.* 209

Evans, M. E., Parry, J. M.: The Cross Sensitivity to Radiations, Chemical Mutagens and Heat Treatment of X-ray Sensitive Mutants of Yeast 261

Filkova, E. V., s. Smirnov, G. B., *et al.* 51

Fujii, S., Horiuchi, T.: Studies on Lambda Virulent Mutants. I. Isolation and Characterization of Revertants from *λvirC* Mutant 287

Glansdorff, N., s. Piérard, A., *et al.* 235

Goman, M., s. Silverstone, A. E., *et al.* 223

Gruijthuijsen, M., s. Putte, P. van de 173

Haugli, F. B., Dove, W. F.: Genetics and Biochemistry of Cycloheximide Resistance in *Physarum polycephalum* 97

Haugli, F. B., Dove, W. F.: Mutagenesis and Mutant Selection in *Physarum polycephalum* 109

Haynes, R. H., s. Khan, N. A. 279

Herrlich, P., Scherzinger, E., Schweiger, M., Trautner, T. A.: Identification of the "Sense"-Strand of T7 DNA through Heteroduplex Directed *in vitro* Enzyme Synthesis 61

Herrlich, P., s. Scherzinger, E., *et al.* 67

Hofs, E. B. H., Pol, J. H. van de, Arkel, G. A. van, Jansz, H. S.: Dimeric Circular Duplex DNA of Bacteriophage ΦX174 and Recombination 161

Horiuchi, T., s. Fujii, S. 287

Jagiello, G., Ducayen, M., Lin, J. S.: Meiosis Suppression by Caffeine in Female Mice . . 209
Jansz, H. S., s. Hofs, E. B. H., *et al.* 161
Kanazir, D. T., s. Savić, D. J. 45
Khan, N. A., Haynes, R. H.: Genetic Redundancy in Yeast: Non-Identical Products in a Polymeric Gene System 279
Kjeldgaard, N. O., s. Pedersen, S. 85
Kunst, F., s. Lepesant, J.-A., *et al.* 135
Lambertsson, A. G.: The Ribosomal Proteins of *Drosophila melanogaster*. II. Comparison of Protein Patterns of Ribosomes from Larvae, Pupae and Adult Flies by Two-Dimensional Polyacrylamide Gel Electrophoresis 215
Lepesant, J.-A., Kunst, F., Lepesant-Kejzlarová, J., Dedonder, R.: Chromosomal Location of Mutations Affecting Sucrose Metabolism in *Bacillus subtilis* Marburg . . 135
Lepesant-Kejzlarová, J., s. Lepesant, J.-A., *et al.* 135
Lin, J. S., s. Jagiello, G., *et al.* 209
Matsukage, A.: The Effects of KCl Concentration on the Transcription by *E. coli* RNA Polymerase. I. Specific Effect of the Combination of Nucleoside Triphosphates . . . 11
Matsukage, A.: The Effects of KCl Concentration on the Transcription by *E. coli* RNA Polymerase. II. Effect on the Specificity of T7 Transcription 23
Nigtevecht, G. van, s. Brederode, J. van 247
Oishi, M., s. Adams, A. 205
Palmer, H. M., s. Roper, J. A., *et al.* 125
Parry, J. M.: A Quantitative Analysis of "Negative Liquid Holding", in Some UV Sensitive Mutants of Yeast 33
Parry, J. M., s. Evans, M. E. 261
Pedersen, S., Kjeldgaard, N. O.: A Hybridization Assay Specific for Ribosomal RNA from *Escherichia coli* 85
Piérard, A., Glansdorff, N., Yashphe, J.: Mutations Affecting Uridine Monophosphate Pyrophosphorylase or the *argR* Gene in *Escherichia coli*. Effects on Carbamoyl Phosphate and Pyrimidine Biosynthesis and on Uracil Uptake 235
Piotrowska, M., s. Cybis, J., *et al.* 273
Pol, J. H. van de, s. Hofs, E. B. H., *et al.* 161
Portalier, R. C., Robert-Baudouy, J. M., Stoeber, F. R.: Localisation génétique et caractèrisation biochimique de mutations affectant le gène de structure de l'hydrolyase altronique chez *Escherichia coli* K 12 335
Portalier, R. C., s. Robert-Baudouy, J. M., *et al.* 351
Prazmo, W., s. Putrament, A., *et al.* 373
Pritchard, R. H., s. Ahmad, S. I. 323
Putrament, A., Baranowska, H., Biliński, T., Prazmo, W.: On the Specificity of Caffeine Effects. Inhibition by Caffeine of RNA and Protein Synthesis in Yeast and *Escherichia coli* 373
Putte, P. van de, Gruijthuijsen, M.: Chromosome-Mobilization and Integration of F-Factors in the Chromosome of RecA Strains of *E. coli* under the Influence of Bacteriophage Mu-1 173
Ripley, L. S., Drake, J. W.: A Genetic Assay for Transversion Mutations in Bacteriophage T 4 1
Robert-Baudouy, J. M., Portalier, R. C., Stoeber, F. R.: Localisation génétique et caractèrisation biochimique de mutations affectant le gène de structure de l'hydrolyase mannonique chez *Escherichia coli* K 12 351
Robert-Baudouy, J. M., s. Portalier, R. C., *et al.* 335
Roper, J. A., Palmer, H. M., Watmough, W. A.: Mitotic Non-Conformity in *Aspergillus nidulans:* the Effects of Caffeine 125

Rowbury, R. J., s. Shannon, K. P., *et al.* 185
Sakai, F., Takebe, I.: A Non-Coat Protein Synthesized in Tobacco Mesophyll Protoplasts Infected by Tobacco Mosaic Virus (Short Communication) 93
Savić, D. J., Kanazir, D. T.: The Effect of a Histidine Operator-Constitutive Mutation on UV-Induced Mutability within the Histidine Operon of *Salmonella typhimurium* . . 45
Scaife, J. G., s. Silverstone, A. E., *et al.* 223
Schenberg-Frascino, A.: Erratum 197
Scherzinger, E., Herrlich, P., Schweiger, M.: Transcription T3 and T7 Early Genes by T3 and T7 RNA Polymerases 67
Scherzinger, E., s. Herrlich, P., *et al.* 61
Schweiger, M., s. Herrlich, P., *et al.* 61
Schweiger, M., s. Scherzinger, E., *et al.* 67
Shannon, K. P., Spratt, B. G., Rowbury, R. J.: Cell Devision and the Production of Cells Lacking Nuclear Bodies in a Mutant of *Salmonella typhimurium* 185
Silverstone, A. E., Goman, M., Scaife, J. G.: *ALT:* A New Factor Involved in the Synthesis of RNA by *Escherichia coli* 223
Skavronskaya, A. G., s. Smirnov, G. B., *et al.* 51
Smirnov, G. B., Filkova, E. V., Skavronskaya, A. G.: The Mutator Property *uvr502* Mutation Affecting UV Sensitivity of *Escherichia coli* 51
Smith, H. R., s. Anderson, E. S. 79
Spratt, B. G., s. Shannon, K. P., *et al.* 185
Stoeber, F. R., s. Portalier, R. C., *et al.* 335
Stoeber, F. R., s. Robert-Baudouy, J. M., *et al.* 351
Tabeke, I., s. Sakai, F. (Short Communication) 93
Takata, R.: Genetic Studies of the Ribosomal Proteins in *Escherichia coli*. VIII Mapping of Ribosomal Protein Components by Intergeneric Mating Experiments between *Serratia marcescens* and *Escherichia coli* 363
Trautner, T. A., s. Herrlich, P., *et al.* 61
Watmough, W. A., s. Roper, J. A., *et al.* 125
Weglenski, P., s. Cybis, J., *et al.* 273
Wetekam, W.: Identification of Template Strand in Heteroduplex DNA Directing Cell-Free Enzyme Synthesis 57
Yashphe, J., s. Piérard, A., *et al.* 235

Indexed in Current Contents